



DISINFECTANTS

# Leminee 23®

cleaner disinfectant

## TECHNICAL DATA SHEET

Packaging	Code
4 x 4 L	2004278001
20 L	2004334001
210 L	2004390001

### Description:

LEMINEE 23 Cleaner Disinfectant is a one-step NPE free formulation for use in health care and educational environments, food service establishments and other institutional areas. It is effective as a disinfectant, deodorizer as well as a cleaner. When used as directed, it is effective against *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Escherichia coli* and *Salmonella typhimurium*. To be used on surfaces including floors, walls, tables, chairs, counters, sink tops, garbage pails, rest rooms, bed pans, bed frames and other non porous hard surfaces. LEMINEE 23 Cleaner Disinfectant is very effective for controlling odours caused by the growth of bacteria. Its fresh lemon fragrance will deodorize areas that are hard to keep fresh such as garbage storage areas, empty garbage bins and cans, basements, restrooms and other areas prone to odour caused by microorganisms.

### Use Direction:

**DISINFECTION:** Pre-clean all surfaces prior to disinfection. Combine LEMINEE 23 with water in a 1 to 64 proportion (1 part LEMINEE 23 with 64 parts water) 16 ml/L. Apply with a cloth, mop sponge or spray. Allow surfaces to remain wet for 10 minutes. Rinse with potable water, then remove excess liquid. Prepare a fresh solution for each use. DO NOT MIX WITH OTHER CLEANERS.

**PRECAUTIONS FOR FOOD PLANTS:** Equipment and surfaces subjected to direct food contact must be thoroughly rinsed with potable water after cleaning with this product. Avoid contamination of food during use. Do not store in food processing or food storage area.

KEEP FROM FREEZING

### Security:

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X
X =	See MSDS
0 =	Insignificant
1 =	Slight
2 =	Moderate
3 =	High
4 =	Extreme

### Note:

The data presented herein is based on experiments and information believed reliable. However, we can make no guarantee on performance of, or results obtained through the use of the product herein described owing to varying conditions in laboratories and plants over which we have no control. Neither can any guarantee be given that the products or uses outlined will not infringe any existing patents.

### Technical Specifications:

Appearance	Clear liquid
Colour	Fluorescent yellow
Odour	Lemon
Specific Gravity	1.045 – 1.060
pH	10.8 – 11.6
Solids (% Brix)	17% Typical
Quat (%)	4.5%
D.I.N.	02160366



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**Section I. Product Identification and Uses**

**HMIS (HFRP)**  
**Health Hazard** 2  
**Fire Hazard** 0  
**Reactivity** 0  
**Personal Protection** b

<b>Common / Trade name</b>	LEMINEE 23 CLNR DISINFECTANT	<b>TDG</b>	Not regulated under TDG (Canada).
<b>WHMIS</b>	D1B, D2B, E, Registered, product, with, a, DIN.	<b>PIN</b>	None
<b>Code</b>	2004	<b>PG</b>	None
<b>Material uses</b>	Disinfectant, cleaner.		

**Section II. Hazardous Ingredients**

Name	CAS #	% by weight	TLV/PEL	LC50/LD50
Alcohols, C12-15, ethoxylated	68131-39-5	1 - 5	Not available.	ORAL (LD50): Acute: 4150 mg/kg [Rat].
Soda ash	497-19-8	1 - 5	Not available.	ORAL (LD50): Acute: 5140 mg/kg [Rat]. DERMAL (LD50): Acute: 4000 mg/kg [Rabbit].
Pentasodium tripolyphosphate	7758-29-4	1 - 5	Not available.	Not available.
Alkyl dimethylbenzylammonium chloride	68391-01-5	1 - 5	Not available.	ORAL (LD50): Acute: 570 mg/kg [Rat].
Alkyl dimethyl ethylbenzylammonium chloride	68956-79-6	1 - 5	Not available.	ORAL (LD50): Acute: 570 mg/kg [Rat].
Ethyl alcohol	64-17-5	0.1 - 1	Not available.	ORAL (LD50): Acute: 8300 mg/kg [Mouse]. 13700 mg/kg [Rat]. 17750 mg/kg [Rat].

**Section III. First Aid Measures**

**Eye contact** IMMEDIATELY flush eyes with running water for at least 15 minutes. If irritation persists, get medical attention.

**Skin contact** In case of contact, immediately flush skin with plenty of water. If irritation persists, get medical attention.

**Inhalation** Allow the victim to rest in a well ventilated area. If discomfort persists seek medical attention.

**Ingestion** DO NOT induce vomiting. Have a conscious person drink several glasses of water. Seek medical attention.

**Section IV. Physical Data**

<b>Physical state and appearance</b>	Liquid.	<b>Colour</b>	Fluorescent yellow.
<b>pH (1% soln/water)</b>	8.5 - 9.5	<b>Odour</b>	Lemon like.
<b>pH (concentrate)</b>	10.5 - 11.5	<b>Volatility</b>	Not available
<b>Boiling point</b>	The lowest known value is 100°C (212°F) (Water).	<b>Vapour density</b>	Weighted average: 1.01 (Air = 1)
<b>Specific gravity</b>	1.045 to 1.055 (Water = 1)	<b>Vapour pressure</b>	Weighted average: 17.52 mm of Hg (@ 20°C)
<b>Solubility</b>	Miscible in water.		

**Section V. Fire and Explosion Data**

**The product is** Non-flammable.

**Auto-ignition temperature** Not applicable.

**Flash points** Not applicable.

**Degradation products** Not applicable.

**Extinguishing media** Use DRY chemicals, CO2, water spray or foam.

**Section VI. Reactivity data**

**Stability** The product is stable.

**Decomp. products** See fire degradation products.

**Reactivity** Incompatible with oxidizing agents, acids.

**Section VII. Toxicological properties**

**Route of entry** Eye contact. Ingestion. Skin contact. Inhalation.

**Toxicity for animals** See section II.

**Acute effects** Risk of serious damage to eyes. Irritating to skin.

**Chronic effects** No ingredient in this product is currently listed as carcinogens by IARC, NTP or OSHA. No data was determined for the formulation.



**Section VIII. Preventive measure**

**Waste disposal** Container information: Do not reuse container. Rinse product container with warm water, remove label, and recycle the container. Waste information : Hazardous chemical waste. Waste must be disposed according to applicable regulations. Consult your local or regional authorities.

**Storage** Keep container in a cool, well-ventilated area. Do not store in food processing or food storage area. Do not contaminate water by cleaning of equipment or disposal of wastes.

**Precautions** Keep out of reach of children. Avoid contact with skin and eyes. Wear suitable gloves and eye/face protection. Avoid contamination of food during use.

**Spill and leak** Absorb with an inert DRY material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

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**Section IX. Personal protective equipment**

**Gloves** Latex gloves. PVC gloves.

**Respiratory** Wear appropriate respirator when ventilation is inadequate.

**Eyes** Safety glasses.

**Other** Full suit, apron, face shield, boots: are recommended under exceptional circumstances such as fire or spill.

**Eng. controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

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**Section X. Preparation and other Information**

Validated by the Regulatory Affairs Department on 21 Apr. 2010

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**EMERGENCY: EMERGENCY: CANUTEC 613-996-6666**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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**Annex A. Legend**

**HMIS** Hazardous Materials Identification System

**WHMIS** WHMIS Workplace Hazardous Materials Information System

**TDG** Transport Dangerous Goods

**PIN** Product Identification Number

**PG** Packaging Group

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